REMARKS

After entry of the instant Amendment, claims 1-9 and 11-20 are pending in the instant

application. Claim 10 was cancelled in a previous Amendment. Claims 1, 8, and 12 are

amended to clarify that the instant treated kaolin containing silicone rubber composition is free of

reinforcing fillers. As discussed with the Examiner in an interview, support for these

amendments is at least found in paragraphs [0020], [0023] and [0032] of the specification as

originally filed. Accordingly, these amendments satisfy 35 U.S.C. §112 ¶1 and do not introduce

new matter

**Interview Summary:** 

On January 22, 2009, the Applicant's attorney conducted a telephonic interview with the

Examiner to discuss a pending 35 U.S.C. § 112 ¶ 1 rejection of the numerical definition of the

terminology "substantially free" in independent claims 1, 8, and 12. The Examiner and the

Applicant's attorney agreed that if the Applicant amended the claims to clarify that the treated

kaolin containing silicone rubber composition is free of reinforcing fillers, the Examiner would

withdraw the rejection.

Rejection of Claims 1-9 and 11-20 Under 35 U.S.C. § 112 ¶ 1:

Claims 1-9 and 11-20 stand rejected under 35 U.S.C. § 112 ¶ 1 as failing to comply with

the written description requirement. More specifically, the Examiner contends that the numerical

further definition of "substantially free" is not supported by the specification and is considered to

be new matter. As described immediately above, and as discussed with the Examiner, the

Applicant has amended independent claims 1, 8, and 12 to remedy this rejection and to clarify

that the treated kaolin containing silicone rubber composition is free of reinforcing fillers.

Accordingly, the Applicant respectfully requests that the Examiner withdraw these rejections.

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Rejection of Claims 1-9 & 11-20 Under 35 U.S.C. §103 Over Woerner In View of Cornelius

Claims 1-9 and 11-20 stand rejected under 35 U.S.C. § 103 as being unpatentable over

Woerner et al. (U.S. Pat. No. 6,737,458) in view of Cornelius et al. (U.S. Pat. No. 4,677,141).

The Applicant once again respectfully disagrees with this combination and submits that the '458

and '141 patents expressly teach away from this instant invention such that no one of skill in the

art would "obviously" combine these references. The Applicant also respectfully asserts that

are would be violarly combine these references. The rapplicant also respectivity asserts that

even upon combination, there still is no reasonable expectation of success in arriving at the

Teaching Away From This Invention:

instant invention from the combination of these references.

First and foremost, the '458 and '141 patents both teach away from this invention

because each utilizes reinforcing fillers to form silicone compositions with sufficient physical

and mechanical strength. The silicone composition of this invention has similar physical and

mechanical strength but utilizes different technology (i.e., a non-reinforcing treated kaolin filler)

that is both cheaper and easier to use. In fact, the claims of this invention positively recite and

require that the silicone composition is *free of* reinforcing fillers. This is in direct opposition to

the '458 and '141 patents. Accordingly, it would not be obvious to one of skill in the art to

combine the '458 and '141 patents, especially when both references utilize different technology

than this invention and the combination of those references would result in a more expensive

silicone composition that is difficult to form.

<sup>1</sup> The '458 patent also uses non-reinforcing fillers but utilizes reinforcing fillers to provide the silicone compositions with sufficient physical and mechanical strength. (See, for example, the Abstract and Claims.)

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## The '458 Patent:

The '458 patent describes forming a silicone composition including "actively reinforcing fillers" such as fumed (pyrogenic) silica and precipitated silica to increase mechanical strength of a final product (e.g. vulcanized silicone rubber). (See Col. 6, lines 39-52). The '458 patent also states that the silicone composition *preferably* includes from 5 to 60 percent by weight and *more preferably* from 10 to 40 percent by weight of the reinforcing fillers. This preferred inclusion of the reinforcing fillers for increasing the mechanical strength of silicone rubbers makes it clear that the silicone compositions taught in the '458 patent *require* reinforcing fillers so that the final silicone rubber products have sufficient physical and mechanical strength. Said differently, reinforcing fillers must be used in the '458 patent because use of non-reinforcing fillers<sup>2</sup> alone is not enough. Thus, no one of skill in the art would look to

the reinforcing fillers of the '458 patent to form the instant invention that is free of such fillers.

## The '141 Patent:

The '141 patent also focuses on forming a silicone composition with reinforcing fillers. In fact, in the specification, examples, and claims, the '141 patent uses "reinforcing silica filler" in amounts of from 10 to 100 parts by weight per 100 parts by weight of a polydiorganosiloxane. The silica reinforcing filler is used to "improve the physical strength" of the silicone composition. (See Col. 3, Lines 6-7). Just as above, that the '141 patent makes clear that reinforcing fillers must be used in order to form silicone compositions with sufficient physical and mechanical strength.<sup>3</sup> Again, no one of skill in the art would look to the reinforcing fillers of the '141 patent to form the instant invention that is free of such fillers.

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<sup>&</sup>lt;sup>3</sup> See also Examples 1, 2, 5, 6, and 7 and the claims of the '141 patent

No Reasonable Expectation of Success:

Even upon combination of the '458 and '141 patents, there still is no reasonable

expectation of success in arriving at the instant invention. Quite simply, combining these

references produces a silicone composition that includes silica reinforcing fillers that are both

expensive and difficult to use. Formation of this type of composition cannot be considered

"successful," especially in view of the instant composition which has excellent physical

properties and is formed with less expense and in a less time consuming manner.

It is well known in the art that silica reinforcing fillers, such as those of the '458 and

'141 patents, are much more expensive than non-reinforcing fillers, such as the kaolin of the

instant invention. It is also well known in the art, and described in the '141 patent' itself, that

when silica reinforcing fillers are used in silicone compositions, care must be taken to avoid

crepe hardening<sup>5</sup> through use of heat or other treatment methods. The need to protect against

crepe hardening increases production times and costs on top of the already expensive silica

reinforcing filler. Thus, there is no reasonable expectation of success in arriving at the instant

invention through the combination of the '458 and '141 patents.

In fact, the Applicant already contemplated using the technology of the '141 patent and

specifically disregarded use of such technology because it generally requires use of heat and

because the silica reinforcing fillers are expensive, as described above (see also paragraphs

[0008] and [0032] of the instant specification as originally filed). In other words, those of skill

in the art have already reviewed the '141 patent in detail, determined that the technology of this

patent was insufficient and should be replaced, and have specifically designed the instant

invention to replace such technology.

See Col. 3, Lines 29-50

<sup>5</sup> Crepe hardening occurs when silica reinforcing fillers form hydrogen bonds with silicones resulting in formation of high viscosity fluids that turn into glassy brittle solids.

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In view of the instant Amendment and clarification of this invention as claimed is free of

reinforcing fillers, the Applicant respectfully submits that the Examiner's combination of the

 $^\circ458$  and  $^\circ141$  patents is misplaced. Thus, the Applicant respectfully requests that the Examiner

withdraw the pending rejections and allow the claims.

**Conclusion** 

In view of the above, the Applicant respectfully submits that the claim rejections under

35 U.S.C. §§ 103 are overcome, and that all pending claims are both novel and non-obvious.

Accordingly, the Applicant respectfully submits that all pending claims are in condition for

allowance, and respectfully requests such allowance.

While it is believed that no additional fees are presently due, the Commissioner is

authorized to charge the Deposit Account No. 08-2789, in the name of Howard & Howard

Attorneys PLLC, for any fees or credit the account for any overpayment.

Respectfully submitted,

HOWARD & HOWARD ATTORNEYS PLLC

January 26, 2009

Date

/David M. LaPrairie/

David M. LaPrairie, Registration No. 46,295

450 West Fourth Street Royal Oak, MI 48067-2557

(248) 723-0442

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